



**GE INDUSTRIAL MOTORS**  
a **WOLONG** company

# Product Technical Information

December 2, 2020

Data shown is for the current revision model #. Ensure your nameplate model # matches.

<b>Model Number:</b>	<b>5KS213SAE6054A</b>
<b>Catalog Number:</b>	<b>V4027</b>
<b>Instruction Manual:</b>	GEK-95351
<b>Connection Diagram:</b>	GEM2034E-FIG9
<b>Outline Drawing:</b>	4002B5821PMP5323

Accessory Connection Diagrams			
<b>Bearing Thermocouple:</b>	None	<b>Heater:</b>	3027JE-1C
<b>RTD:</b>	None	<b>Thermistor:</b>	None
<b>Thermostat:</b>	None	<b>Winding Thermocouple:</b>	None
<b>Bearing RTD:</b>	None		

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Marks:

**MODEL NUMBER:** 5KS213SAE6054A  
**Outline Drawing:** 4002B5821PMP5323  
**Connection Diagram:** GEM2034E-FIG9  
**Instruction Book:** GEK-95351  
**Design Code:** 21BD1152A  
**Type:** KS  
**Frame:** L213TP10  
**Phases:** 3  
**Poles:** 4  
**Output Power:** 7.5HP 5.6KW  
**RPM:** 1770  
**Voltage:** 230/460  
**Hertz:** 60  
**Amps - FL:** 18.4/9.2  
**Service Factor:** 1.15  
**Alt Service Factor:** 1.00

**Estimated Weight:** 200 Lbs  
**Time Rating:** CONT  
**Enclosure:** TEFC  
**Encl Construction:** SD  
**Ambient Max(°C):** 40  
**Alt Ambient Max(°C):** 65  
**Insulation Class:** H  
**NEMA Design:** B  
**Nominal Efficiency:** 91.7 %  
**Guaranteed Efficiency:** 90.2 %  
**3/4 Load Efficiency:** --  
**KVA Code:** H  
**Max KVAR:** 2.3  
**Power Factor:** 83.5  
**Bearing - DE:** 7308  
**Bearing - ODE:** 6208-2ZC3

Enclosure is Totally Enclosed Fan-Cooled

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**Stamped Nameplate Notes:**

PREMIUM EFFICIENT MOTOR  
 ROT CCW FACING ODE LEAD/PH SEQUENCE 1-2-3/1-2-3  
 HTR LDS HE1-HE2 115V 60W  
 SEVERE DUTY  
 INVERTER DUTY PER NEMA MG1 PART 31  
 ALTERNATE RATING FOR PWM CONTROL:  
 1.0 SF VAR TORQUE RANGE 5-60 HZ  
 50HZ DATA:5 HP 190/380 V WITH FLA-15.2/7.6 A



**Additional Information:**

4P - TP EXTN  
C/BOX 55 CU IN-1.00 NPT  
HEATER LEADS EXIT WITH MOTOR LEADS  
E/SHLD GROUND STUD MTD ON DE C/BOX SIDE  
RCF 5000 CPM, STATIC DEFLECTION .0014 INCHES &  
CENTER OF GRAVITY 8.59 INCHES  
HOLLOW SHAFT HIGH THRUST  
NON REV CPLG W/BX=1.00" KW=0.25"  
OIL RESISTANT SLEEVING ON LEADS  
BEARING LIFE 8760 HOURS AT 2071 LB THRUST



**Performance Characteristics**

1st Winding 1st Connection

**Design: 21BD1152A**

**Marks:**

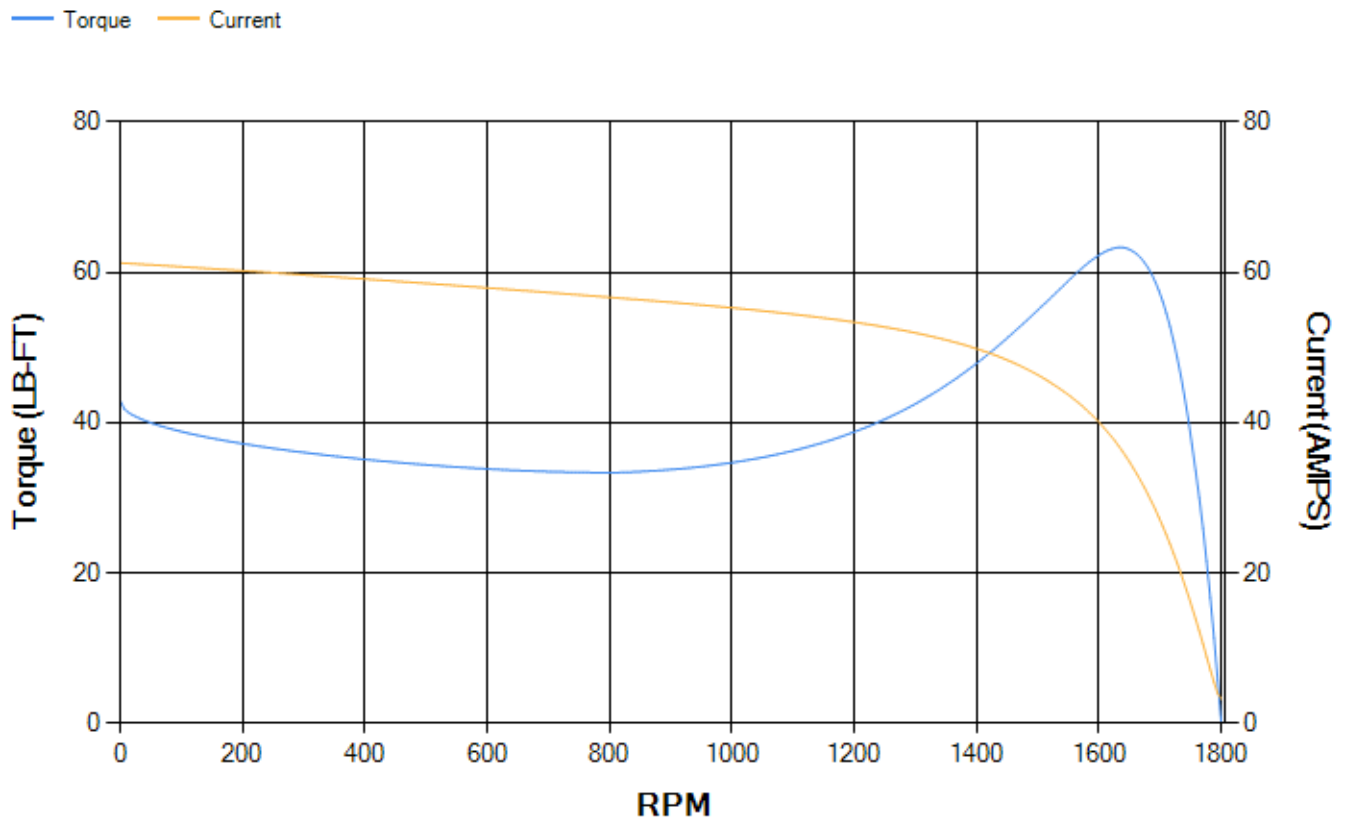
LOAD %	125.0	115.0	100.0	75.0	50.0	25.0	0.0
% EFF	90.56	91.05	91.84	92.16	91.68	87.87	0.00
% PF	84.59	84.42	83.64	80.28	71.83	50.93	6.5
AMPS	11.45	10.5	9.14	7.12	5.33	3.92	3.22

<b>TORQ(FL)#FT</b>	22.25	<b>TORQ(LR)%FL</b>	192.5	<b>TORQ(BD)%FL</b>	282.87
<b>AMPS(LR)</b>	61.27	<b>PF AT START</b>	0.4		

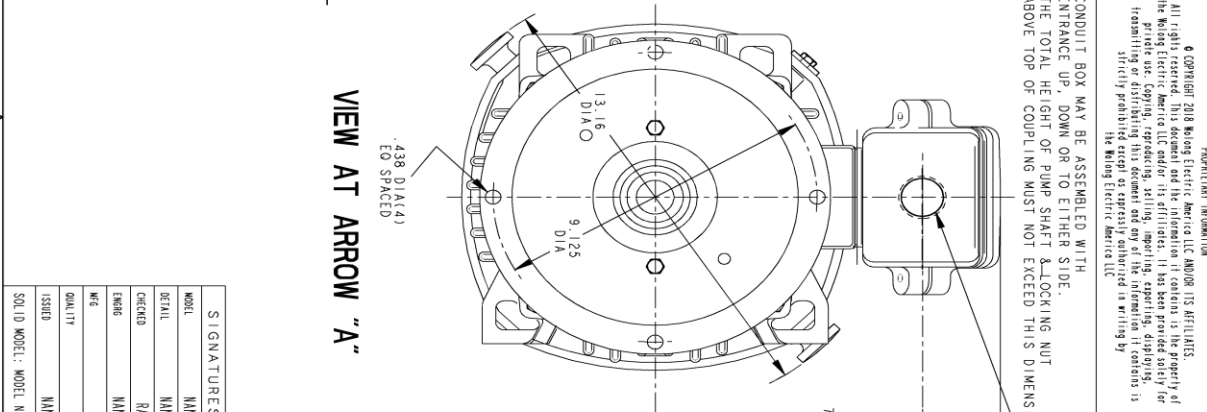
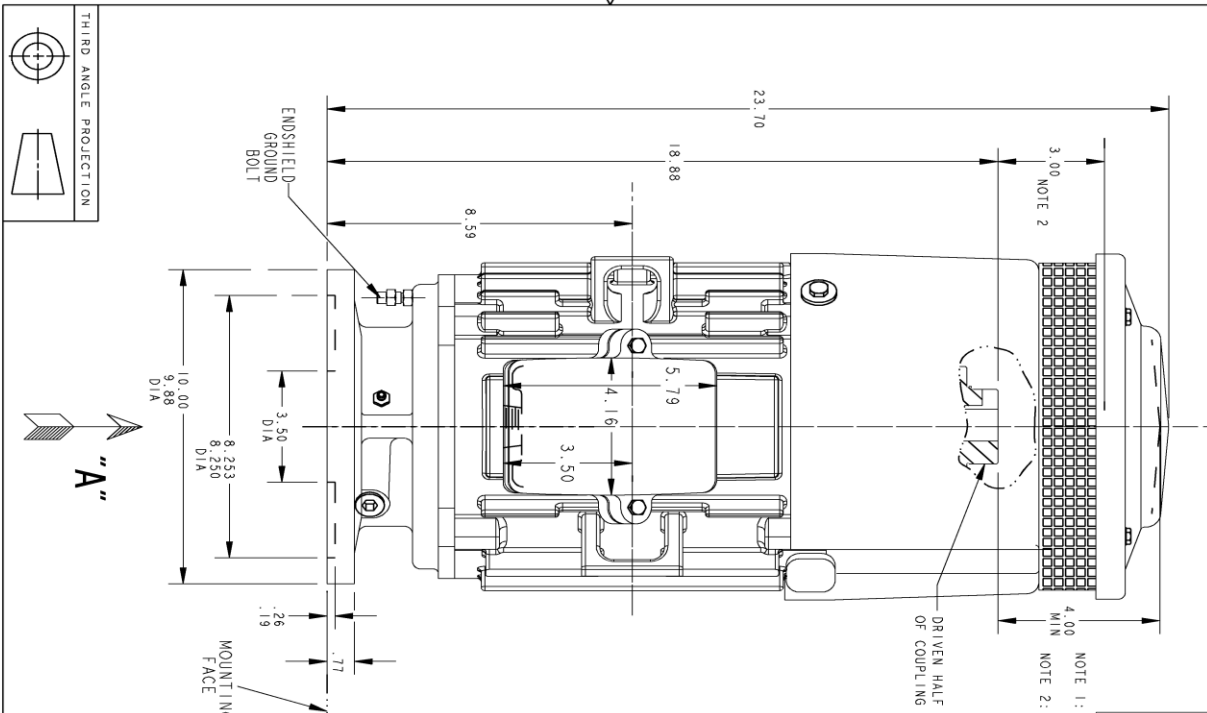
This motor is capable of two cold or one hot start with a maximum connected load inertia of 306 Lb-Ft Sq (12.88 Kg-meter Sq)at 100% voltage, where the load torque varies with the square of the speed. Acceleration time with maximum inertia and the above load type is 54 seconds. Safe stall time at 100% voltage is 120 seconds cold, 89 seconds hot. Rotor inertia is 0.99 Lb-Ft Sq (0.04 Kg-meter Sq).

<b>Open Circuit A-C:</b>	0.448	<b>Short Circuit D-C:</b>	0.013
<b>Short Circuit A-C:</b>	0.021	<b>X/R Ratio:</b>	4.936
<b>Stator Slots:</b>	36	<b>Rotor Slots:</b>	28

**Speed Torque Current Curve (First Connection, First Speed)**



Marks:



REV.	DESCRIPTION	DATE	APPROVED
1	ISSAC# 14-0928	11/14/14	VI JAY
2	ISSAC# 18-0869	11/02/18	PRASHANTH

POLES	BORE DIA.	"BY"	"W"	"D"
1	1.002	1.001		
2	.939	.938	.250	.125
3	.877	.876		
4	.752	.751	.188	.094
6	1.002	1.001		
7	.938	.938	.250	.125
8	.877	.876		
9	.752	.751	.188	.094

TITLE	DATE	SIGNATURES
INDUCTION MOTOR OUTLINE	11/13/13	MANCH
HOLLOW SHAFT-HIGH THRUST (B3-10), EXT ON DE SIDE	11/13/13	MANCH
FME: FR20 TFC "P" BASE VERTICAL	11/13/13	MANCH

REV.	DESCRIPTION	DATE	APPROVED
002	ISSAC# 14-0928	11/14/14	VI JAY
002	ISSAC# 18-0869	11/02/18	PRASHANTH

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NOTE 1: CONDUIT BOX MAY BE ASSEMBLED WITH ENTRANCE UP, DOWN OR TO EITHER SIDE.  
 NOTE 2: THE TOTAL HEIGHT OF PUMP SHAFT & LOCKING NUT ABOVE TOP OF COUPLING MUST NOT EXCEED THIS DIMENSION. (SEE NOTE 1)

DRIVEN HALF OF COUPLING

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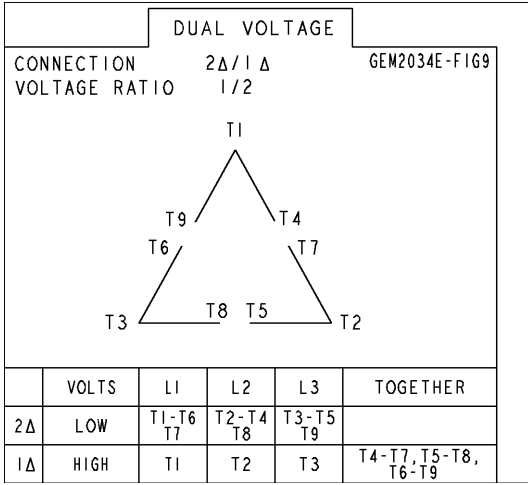
INDUCTION MOTOR OUTLINE  
 HOLLOW SHAFT-HIGH THRUST (B3-10), EXT ON DE SIDE  
 FME: FR20 TFC "P" BASE VERTICAL

4002B5821PMP5323

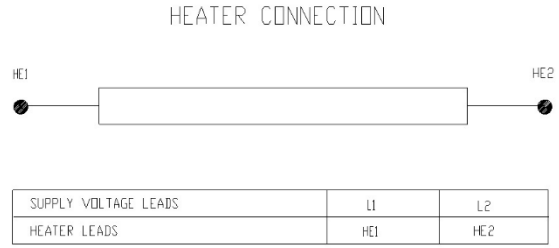
SCALE: DRAWING/RESIZE/SCALE

**Marks:**

**Connection Diagram**  
**GEM2034E-FIG9**



**Heater Connection**  
**3027JE-1C**



End shield Assembly		
Part Description	DE Side Part#	ODE Side Part#
End Shield	128D6027PA1	128D6028PA1
Bearing	235A2503EJ01	235A2503AA01
Slinger/Inproseal	235A2300FL1	

Fan & Fan Cover Assembly	
Part Description	Part#
Fan	
Fan Cover	4003C5521AC-G01

Conduit & Accessories Box Assembly	
Part Description	Part#
Conduit Box	4002B5721PA-G01

Mechanical Accessories	
Part Description	Part#
Brake	
Tachometer	

